

OIL ANALYSIS REPORT



DAVID MEINERT 7717976 VOLVO PENTA A28852 - PORT DIESEL ENGINE

Sample No: VPA055308
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA055308	VPA042255	VPA032415	VPA025661
Sample Date	07 Dec 2023	08 Sep 2022	19 May 2021	23 Mar 2020
Machine Hours	857	705	608	508
Oil Hours	0	100	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.3	13.5	13.3
Base Number (BN)	mg KOH/g	9.9	11.3	---	---
Oxidation (PA)	%	59	60	59	53

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.1	0.1	0.3
Nitration (PA)	%	55	50	48	45
Sulfation (PA)	%	55	55	54	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	4	4
Sodium	ppm	<1	0	3	3
Potassium	ppm	<1	0	<1	0

WEAR METALS

Iron	ppm	39	26	22	23
Copper	ppm	17	11	14	18
Lead	ppm	11	9	15	24
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	▲ 61	▲ 105	86	49
Chromium	ppm	4	5	4	3
Molybdenum	ppm	60	60	57	57
Nickel	ppm	3	1	3	2
Titanium	ppm	0	0	<1	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1067	998	987	968
Magnesium	ppm	974	882	916	861
Zinc	ppm	1336	1221	1096	1038
Phosphorus	ppm	1074	999	976	937
Barium	ppm	0	<1	0	0
Boron	ppm	0	0	4	4

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level has decreased, but is still abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP99031103
Unique No: 10789526
Signed: Sean Felton
Report Date: 18 Dec 2023

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VOLVO PENTA

GRAPHS

